

Figure 1

Sheet 2 of 15 Sheets

Applicant: Daniel Pinto et al.

Title: REGULATORY SEQUENCE OF THE MOUSE
VILLIN GENE - USE IN TRANSGENESIS

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Docket No.: 04543-004001

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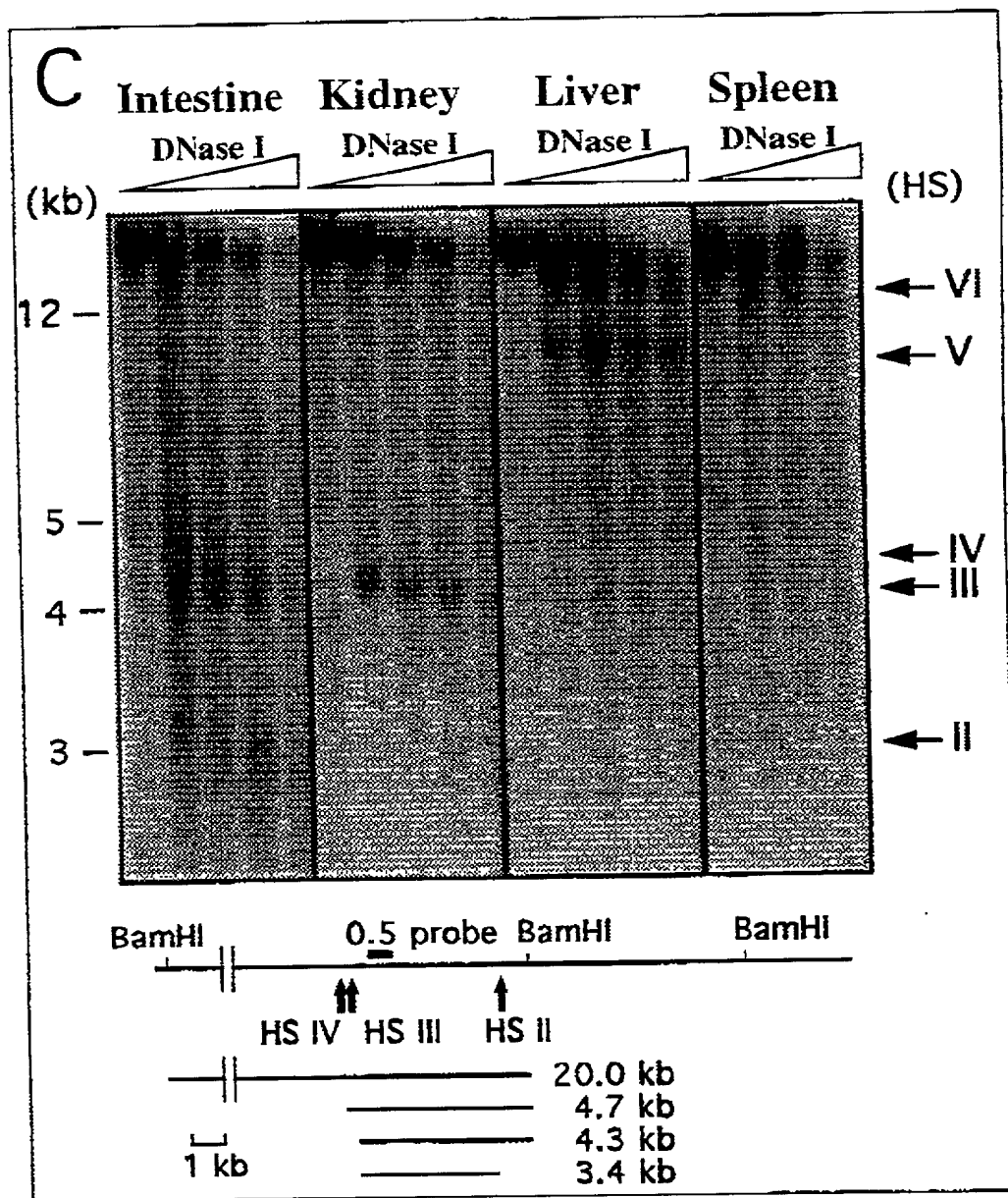


Figure 2(b)

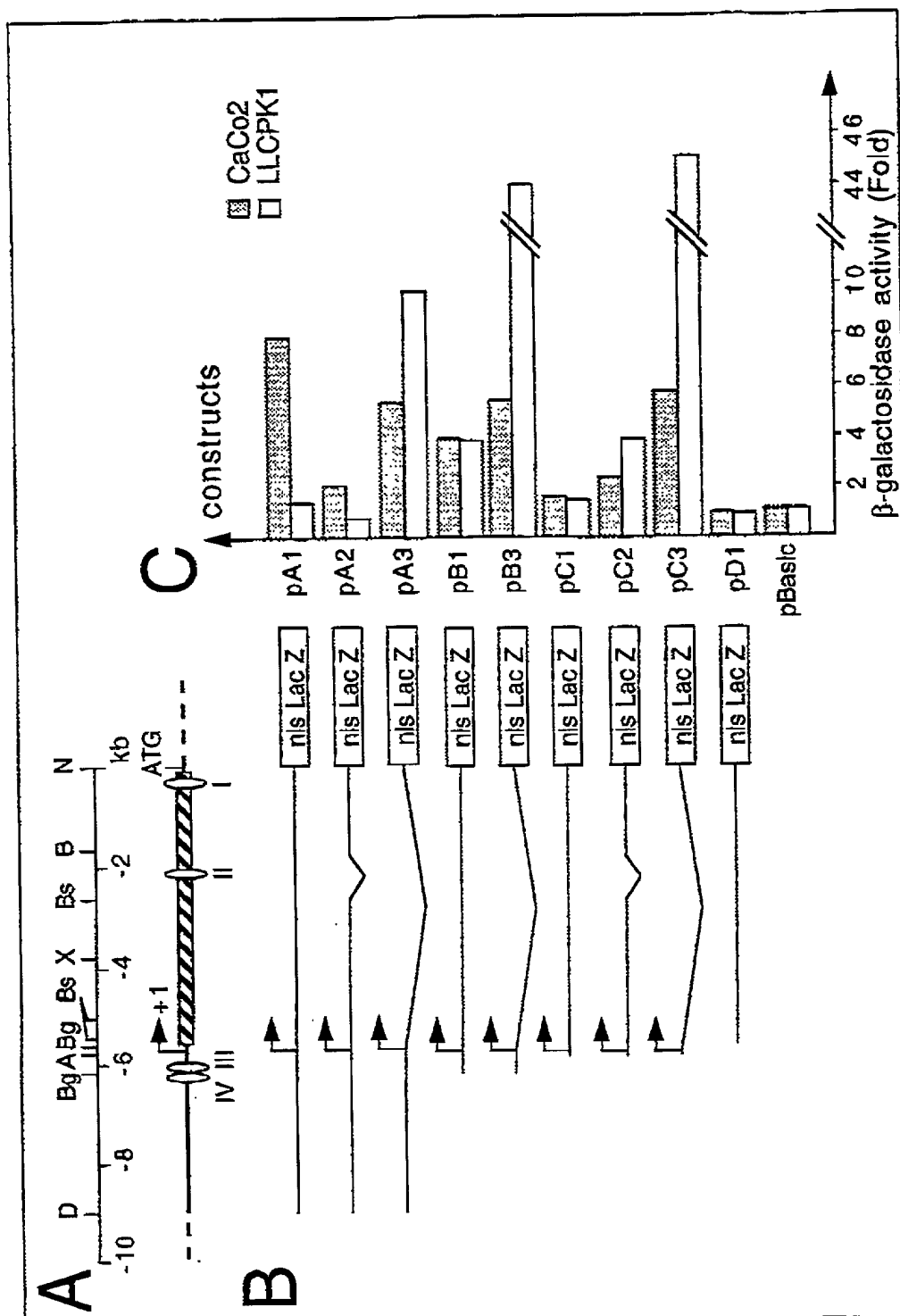


Figure 3

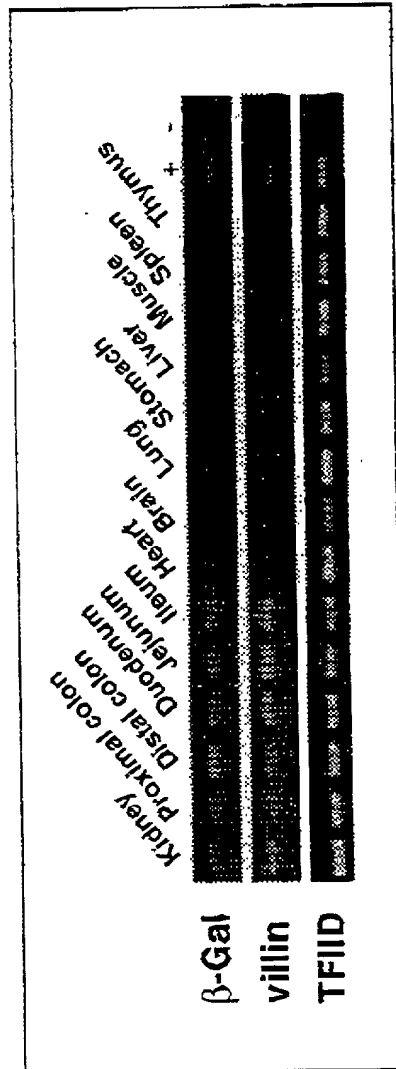


Figure 4

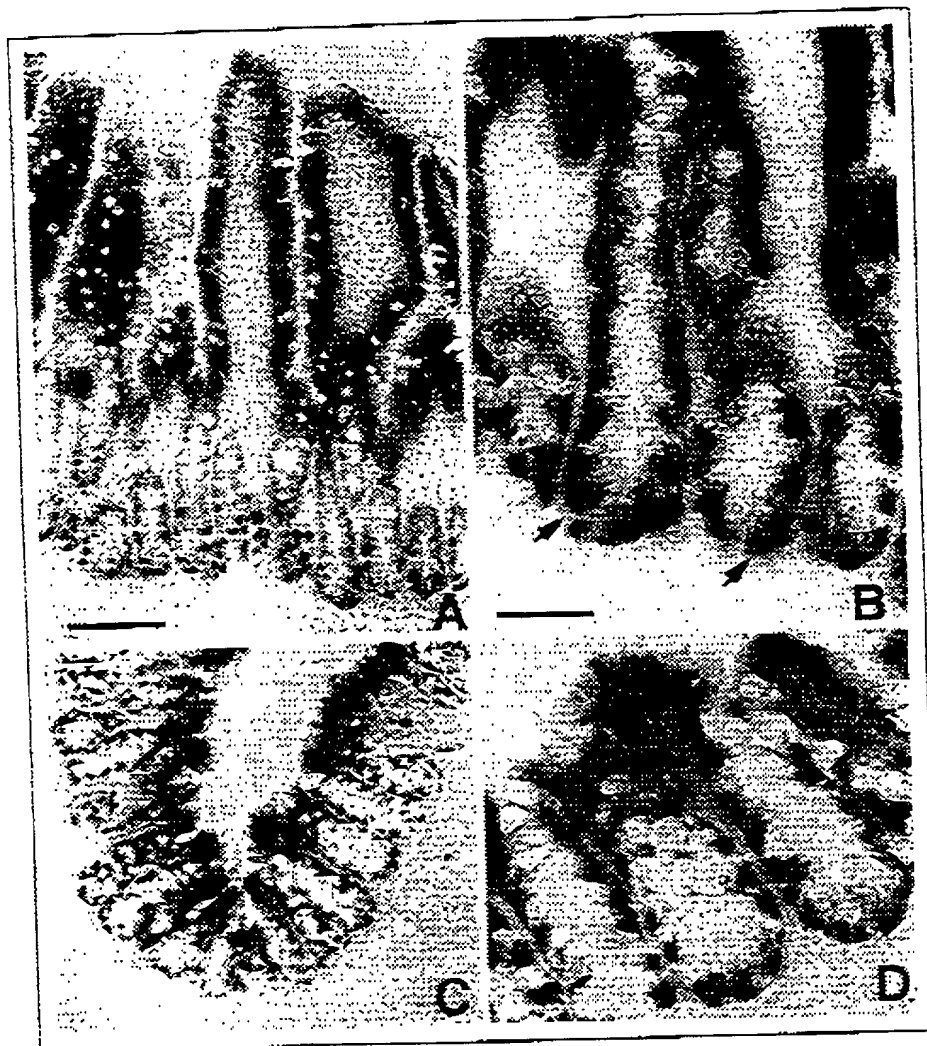


Figure 5

Genomic sequence of the mouse villin gene regulatory sequences

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 CAGTGGTGGC AGACACCCTT AATTCCAGTA TTCAGGAGGC AGAAGCAGGC AGATCTCTGT 240
 GAGTTCGAAG TCAGCCTAGT CTGCAAAGCT AGTTCAGGA TGGCAAGGGC TACACAGAGA 300
 AACCTTGTCT CATAAAACCA AAGTAGTAGT AGTAGTAGTA ATGCCATAGA GAAAATTGGA 360
 GTCCATTGAG GATGGACCAT CCTATAAGAT GATTCTCTTG ACCCAGGTAA GCTAATGTCA 420
 TGGGGAAAGG GGATGGGACT GTCCTAGATT AAAAAGTGCT GAGGCGATGC CTATTCTCAA 480
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 CCCCCGACTC CCGTGCCACT TCTCTAGGGC TGGAGGGTGG CCAGCCCTGG TGGGGGTTGC 3180
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+1

exon 1

(transcription start site)

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SUBSTITUTE SHEET (RULE 26)

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exon 2

Targeting using the regulatory sequences of the mouse villin gene Data obtained by transgenesis - October 1998

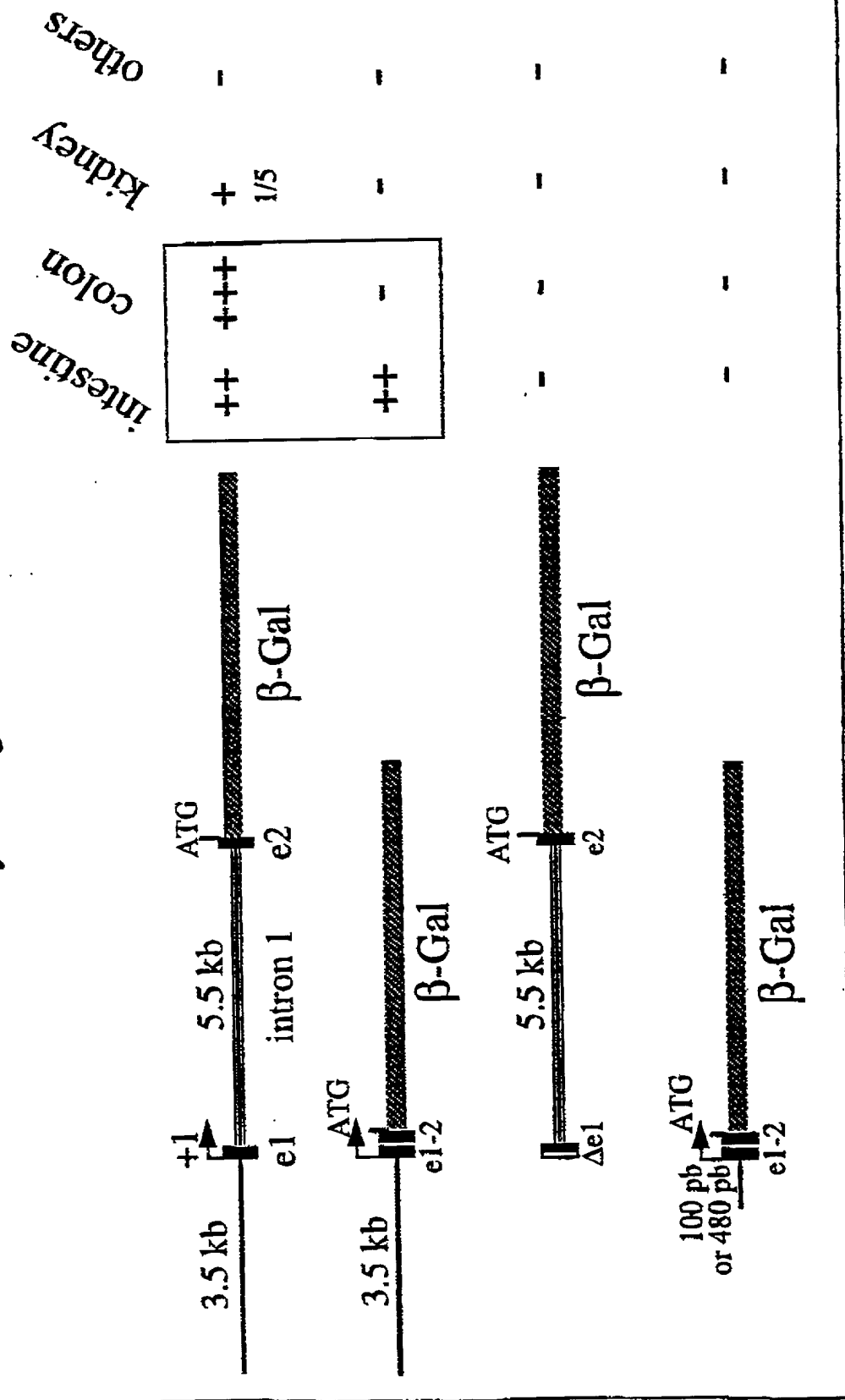


Figure 7

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Targeting of oncogenes and tumor suppressor genes

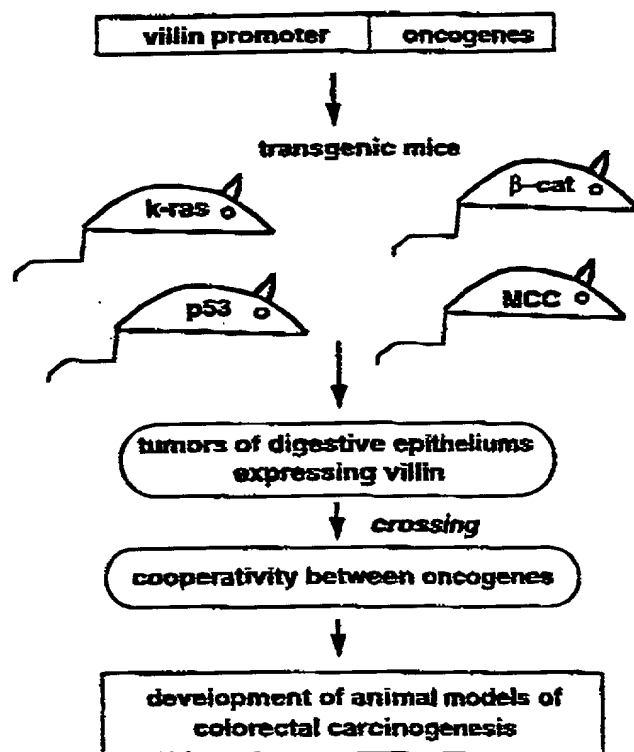


FIGURE 8A

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Targeting of immortalizing gene

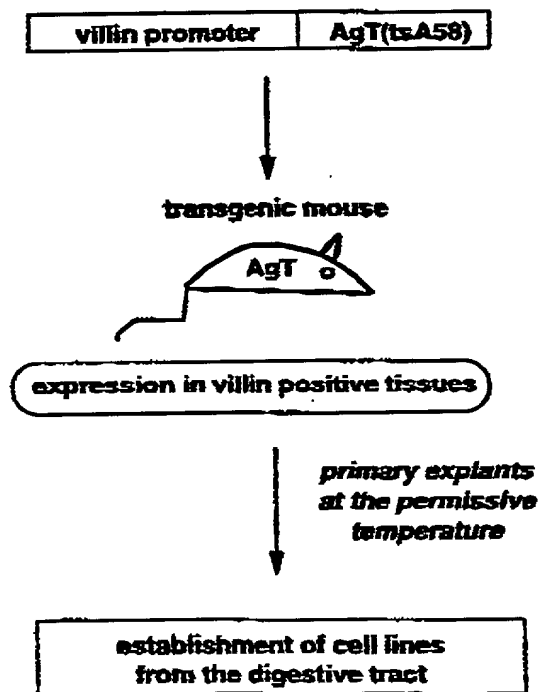


FIGURE 8B

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Targeting of transactivator gene (repressor form rTA)

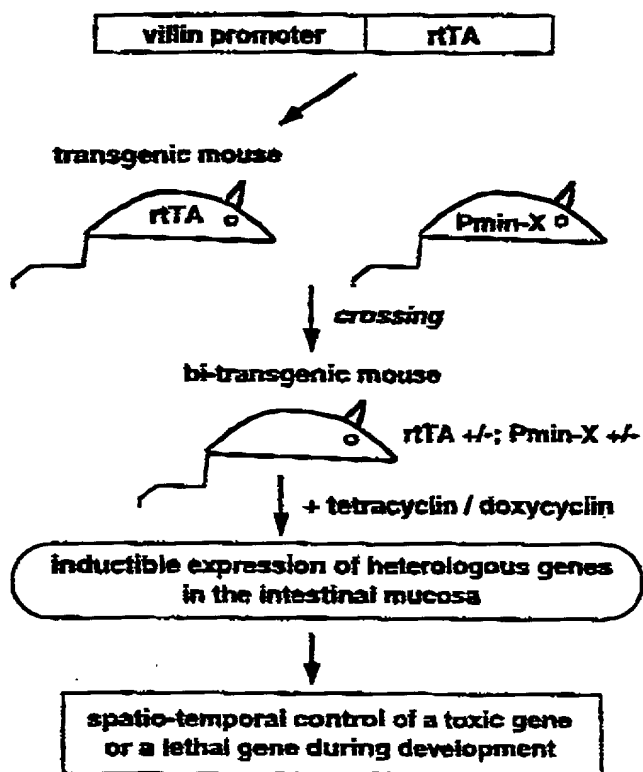


FIGURE 8C